

ABSTRACT

If a total number of specific RF tags is too large, many RF tags respond at a time. Therefore a problem occurs that an interrogator cannot receive information from the RF tags. A first invention relates to an RF tag. The RF tag includes an interrogator signal receiving section for receiving an interrogator signal from an interrogator, a synchronizing signal generating section for generating a synchronizing signal from the received interrogator signal, a response information obtaining section for obtaining response information according to the interrogator signal, a spread-code modulating section for modulating the response information with a spreading code and obtaining the spread-code modulated response information, and a transmitting section for transmitting the response signal that contains the spread-code modulated response information in a data area at a random transmission interval in synchronism with the synchronizing signal.